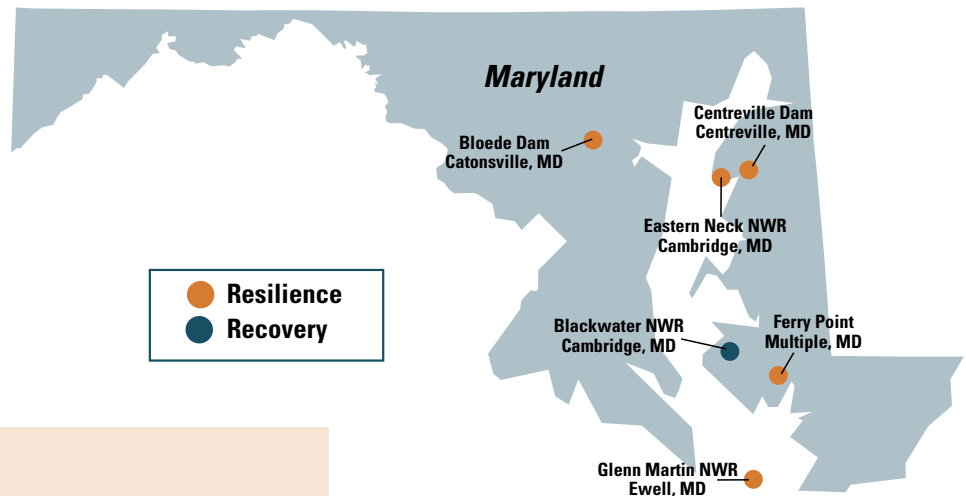


# Building a Stronger Coast in Maryland

## *Hurricane Sandy Recovery and Resilience Projects*

The U.S. Fish and Wildlife Service, through the Disaster Relief Appropriations Act of 2013, is investing more than \$13 million in projects to help Maryland recover from impacts of Hurricane Sandy and better withstand future storms. The projects will restore and add resilience to freshwater and saltwater habitats, and repair and restore national wildlife refuge (NWR) facilities for safe visitor and staff access.



### Six planned projects will:

- Remove two dams
  - Open 54 miles of waterways in rivers and tributaries for fish passage
  - Protect and/or restore 4,200 acres of quality high tide marsh
  - Construct 24,950 feet of living shoreline
- Total funding: \$13,096,841**

### MARYLAND RESILIENCE AND RECOVERY PROJECTS

Project	Type	Description	Location	Funding Awarded
Restore Fog Point living shoreline	Resilience	Protect and restore Smith Island habitat to benefit wildlife and the community	Glenn Martin NWR	\$9,000,000
Restore Hail Cove living shoreline	Resilience	Reduce erosion, stabilizing shore and habitat	Eastern Neck NWR	\$1,550,000
Remove the Centreville and Bloede Dams	Resilience	Remove failing dams and open rivers to fish migration	Centreville, MD Catonsville, MD	\$1,212,750
Enhance marshes at Ferry Point, Nanticoke River/Pocomoke Sound	Resilience	Control invasive phragmites reed to allow natural sediment buildup	MD (multiple towns)	\$638,000
Provide backup power - generator, solar and electrical improvements	Recovery	Provide emergency power and reduce energy use	Eastern Neck NWR	\$686,591
Repair refuge visitor center roof	Recovery	Restore infrastructure for visitor access and safety	Blackwater NWR	\$9,500

## REGIONWIDE SCIENCE PROJECTS

Maryland also will benefit from regionwide science projects designed to help resource managers, planners, conservation partners and private landowners make better-informed decisions.

Project	Description	Location	Funding Awarded
<b>Modernize coastal barrier resources system (CBRS) comprehensive map</b>	Update the CBRS maps, which highlight delicate natural areas vulnerable to change	CT, DE, MD, MA, NJ, NY, NC, RI, VA	\$5,000,000
<b>Provide decision support for increasing resilience of tidal wetland habitats and species</b>	Create a central, region-wide study on wetland impact and effective responses with standardized metrics	CT, DE, MD, MA, NJ, NY, RI, VA	\$2,200,000
<b>Provide decision support for increasing resilience of beach habitats and beach-dependent species</b>	Create and integrate predictive models of coastal impacts such as rising sea levels, storms, and beach habitats to study their interaction and guide conservation decisions	CT, DE, MD, MA, NJ, NY, RI, VA	\$1,750,000
<b>Determine resilience of the tidal marsh bird community</b>	Assess Hurricane Sandy's impact on tidal marsh sites and identify high-priority areas, standardizing measurement metrics	CT, DE, MD, MA, NJ, NY, RI, VA	\$1,573,950
<b>Increase resilience and improve standards for culverts and road stream crossings</b>	Develop a survey of New England road stream crossings to assess condition and effective storm management strategies	CT, DE, MD, MA, NJ, RI, VA	\$1,270,000
<b>Model submerged aquatic vegetation and salt marsh resilience</b>	Build a model to help predict effects of future storms on salt marshes and associated migratory bird populations	CT, DE, MD, NJ, NY, NC, RI, VA	\$217,000



Scot Nielson

*Black duck*

For more information, visit <http://www.fws.gov/hurricane/sandy/> or contact:

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